

1. (Amended) A linear motor comprising:

a magnet track;

a magnet assembly coupled to the magnet track, the magnet assembly having a plurality of side-by-side alternating magnetic north poles and magnetic south poles; and

a linear armature having a plurality of side-by-side electrically conductive coils formed on an electrically and magnetically nonconductive substrate which is movably coupled to the magnet track such that the side-by-side electrically conductive coils are positioned and movable in spaced parallel relation to the side-by-side alternating magnetic poles, the substrate including a plurality of electrically nonconductive layers laminated together, each layer having a plurality of electrically conductive windings formed thereon in side-by-side relation on at least one surface thereof with each pair of adjacent conductive windings of each layer electrically isolated from each other on the layer, each electrically conductive winding of each layer positioned in registration and electrically connected with a corresponding electrically conductive winding on each other layer to form one of the electrically conductive coils.

7. (Amended) The linear motor as set forth in claim 1, further including a plurality of spacers positioned between two or more adjacent layers for maintaining the two or more adjacent layers in spaced parallel relation with a gap therebetween.

11. (Amended) A linear motor comprising a linear armature having a plurality of layers, each layer having a plurality of electrically conductive windings formed thereon in side-by-side relation on one surface thereof, the plurality of layers laminated together with the plurality of electrically conductive windings of each layer positioned in registration, wherein each electrically conductive winding on each layer is electrically connected with corresponding electrically conductive windings positioned in registration therewith on the other layers and with each pair of adjacent electrically conductive windings on each layer electrically isolated from each other on the layer.

18. (Amended) A motor comprising a linear armature having a plurality of side-by-side electrically conductive coils formed on an electrically and magnetically nonconductive substrate with each pair of adjacent coils electrically isolated from each other, each coil including a plurality of electrically conductive windings positioned coaxially and